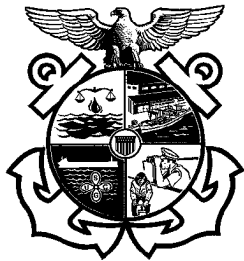


United States Coast Guard



**ALTERNATE COMPLIANCE PROGRAM
FREIGHT VESSEL
EXAMINATION BOOK**

Name of Vessel	
Official Number	ACP Class Society
Date Completed	Location
Vessel Built in Compliance with SOLAS: 60 74 74/78 N/A	
Exam Type	
Annual	Reexamination
Inspectors	
1. _____	3. _____
2. _____	4. _____

Total Time Spent Per Activity:

Regular Personnel (Active Duty)			
ACTIVITY TYPE	ACTIVITY	TRAINING	(PERS) MI

TOTAL ADMIN HOURS	TOTAL TRAVEL HOURS
-------------------	--------------------

Reserve Personnel			
ACTIVITY TYPE	ACTIVITY	TRAINING	(PERS) MI

TOTAL ADMIN HOURS	TOTAL TRAVEL HOURS
-------------------	--------------------

Auxiliary Resources	
TOTAL BOAT HOURS	TOTAL AIRCRAFT HOURS

Use of ACP Freight Vessel Examination Book:

This examination book is intended to be used as a job aid by Coast Guard marine inspectors during annual examinations and reexaminations of U.S. flagged vessels participating in the Alternate Compliance Program (ACP). This book contains an extensive list of possible examination items. It is not, however, the Coast Guard's intention to "inspect" all items listed. The marine inspector must verify that the vessel and its crew are in substantial compliance with international conventions and the requirements of the ACP class society's U.S. Supplement. The depth and scope of the examination must be determined by the marine inspector's observation of the vessel, its equipment, and its crew.

This document does not establish or change Federal laws or regulations. References given are only general guides. Refer to IMO publications, CFR's, the ACP class society's U.S. Supplement, NVIC's, or any locally produced cite guides for specific regulatory references. Although not all items in this book are applicable to all vessels, Section 1 should be filled out in its entirety at each examination and reexamination.

NOTE: *Guidance on how to examine ACP vessels can be found in MSM Volume II, Chapter 32: Alternate Compliance Program, and NVIC 2-95, Change 1. All MSM cites listed in this book refer to MSM Volume II unless otherwise indicated.*

Guide to Examinations:

- ☐ Annual examination and reexamination
- ☐ Annual examination only
- ☐ Expanded examination as required

These three stages are only a general guide. Each marine inspector should determine the depth of the examination necessary. A checked box should be a running record of what has been examined by the marine inspector. It does not imply that the entire system has been examined or that all or any items are in full compliance.

NOTE: *A reexamination normally includes an examination of the vessel's documents, certificates, and licenses, in addition to a "walk-through" of the vessel.*

Pre-inspection Items

- Review vessel computer (survey status) reports from the ACP class society.
- Review reports pertaining to conditions of class or statutory deficiencies
- Obtain copies of forms or certificates to be issued.

Post-inspection Items

- Issue forms/certificates to vessel.
- Update MSIS with international certificate data.
 - VFOD – MSDS
 - VFLD – MIDR
 - MIAR
- Initiate Report of Violation (ROV) if necessary

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Section 1: Administrative Items

IMO Applicability Dates:

Reference	Date
SOLAS 1960	26 MAY 65
SOLAS 1974	25 MAY 80
1978 Protocol to SOLAS 1974	01 MAY 81
1981 Amendments (II-1 & II-2)	01 SEP 84
1983 Amendments (III)	01 JUL 86
<i>Various additional amendments to SOLAS</i>	
MARPOL 73/78 Annex I	02 OCT 83
MARPOL 73/78 Annex II	06 APR 87
MARPOL 73/78 Annex III	01 JUL 92
MARPOL 73/78 Annex V	31 DEC 88
IBC Code	After 01 JUL 86
BCH Code	Prior to 01 JUL 86
COLREGS 1972	15 JUL 77
<i>Various additional amendments to COLREGS</i>	
Load Line 1966	21 JUL 68
STCW 1978	28 APR 84
1991 Amendments	01 DEC 92
1994 Amendments	01 JAN 96
1995 Amendments	01 FEB 97

Involved Parties & General Information:

Vessel's Representatives _____ _____
Phone Numbers

Owner—Listed on DOC (if applicable), or COFR
No Change

Operator
No Change

Vessel Information:

Classification Society	
ISM Issuer: Same as above? Yes No If not the same, which Recognized Organization? _____	
NOTE: The period of validity for ISM documents should correspond to the following list. If they do NOT, ISM documents should be further investigated.	
<input type="checkbox"/> 5 years = Full term (SMS and DOC) <input type="checkbox"/> 12 months = Interim (DOC)	
<input type="checkbox"/> 6 months = Interim (SMC) <input type="checkbox"/> 5 months = Short term (SMC)	
Date of Last Class Survey	
Outstanding conditions of class or non-conformities	
Last Port of Call	Next Port of Call
Cargo	Current Operations
Call Sign	No Change (VFID)
Gross Tons	No Change (VFMD)
Built Date (use delivery date)	No Change (VFCD)
Overall Length (in feet)	No Change (VFMD)

Vessel Description:

Container Vessel

Bulk Carrier

Vehicle Carrier

Other

Section 2: Certificates and Documents

International Certificates:

Name of Certificate	Issuing Agency	ID #	Port Issued/ Country	Issue Date	Exp. Date	Endors. Date
Certificate of Documentation No Change	USCG					
Classification Document No Change						
Certificate of Financial Responsibility (COFR) No Change	USCG					
Safety Construction (SLC) No Change						
Safety Equipment (SLE) No Change						
Safety Radio (SLT) No Change						

Name of Certificates	Issuing Agency	ID #	Port Issued/ Country	Issue Date	Exp. Date	Endors. Date
International Load Line (ILL) No Change						
International Oil Pollution Prevention (IOPP) No Change						
International Tonnage (ITC) No Change						
Safety Management (SMC) No Change						
Document of Compliance (DOC) No Change						

Manning:

- | | | |
|--------------------------|--|---|
| <input type="checkbox"/> | Officers' licenses current | STCW 95 I/2
STCW 95 I/10
STCW 95 VI/1
STCW 95 VI/2 |
| <input type="checkbox"/> | Rest periods | STCW 95 VIII/1 |
| | <ul style="list-style-type: none">Review watch schedules | |

Logs and Manuals:

- | | | |
|--------------------------|---|--|
| <input type="checkbox"/> | Lifesaving equipment maintenance record | SOLAS 74/78 III/19 |
| | <ul style="list-style-type: none">Periodic checks as requiredVisual inspection of survival craft / rescue boat and launching appliancesOperation of lifeboat / rescue boat enginesLifesaving appliances, including lifeboat equipment examined | |
| <input type="checkbox"/> | Emergency training and drills | SOLAS 74/78 III/18 |
| | <ul style="list-style-type: none">Onboard training in use of lifesaving equipment (all crew members)SOLAS training manualLogbook recordsWeekly and lifeboat drills | SOLAS 74/78 III/18.5
SOLAS 74/78 III/25 |
| <input type="checkbox"/> | Bridge log | STCW 95 I/14 |
| | <ul style="list-style-type: none">Pre-arrival tests conductedCasualties (navigation equipment and steering gear failures reported)Steering gear drillsEmergency steering drills | 33 CFR 164.25
33 CFR 164.53 |
| <input type="checkbox"/> | Exemptions to SOLAS certificates | SOLAS 74/78 I/4 |

Pollution Prevention Records:

- | | | |
|--------------------------|---|--|
| <input type="checkbox"/> | Current pollution prevention records | |
| | <ul style="list-style-type: none">Person-in-chargeTransfer equipment tests and inspectionsDeclaration of Inspection | 33 CFR 155.700
33 CFR 156.170
33 CFR 156.150 |

Notes: _____

- ◇ Oil record book (Part 1) (spot-check)
 - Each operation signed by person-in-charge
 - Each complete page signed by master
 - Book maintained for 3 years
 MARPOL Ax. I/20
33 CFR 151.25
- ◇ Shipboard oil pollution emergency plan
 - Approved by flag state / class society
 - Contact numbers correct
 - Immediate Actions List
 MARPOL Ax. I/26.1
33 CFR 151.26
- ◇ Vessel response plan
(vessels carrying oil as secondary cargo)
 33 CFR 155.1045
33 CFR 155.1030
- ◇ Oil transfer procedures
 33 CFR 155.720
 - Posted / available in crew's language
 - List of products carried by vessel
 - Description of transfer system including a line diagram of piping
 - Number of persons required on duty
 - Duties by title of each person
 - Means of communication
 - Procedures to top off tanks
 - Procedures to report oil discharges

Cargo Records:

- Packaged hazardous materials
 - Dangerous Cargo Manifest
 - Division 1.1 or 1.2 explosives (check for required permit for designated dangerous cargo)
 - Training records (check records of crew members considered to be hazmat employees)
 - DOT hazmat registration
 SOLAS 74/78 VII/5
49 CFR 176.30
49 CFR 176.100
49 CFR 172.700-704
49 CFR 176.13
49 CFR 107.601
- Bulk solid hazmat
 - Special permit on board (unlisted cargoes only)
 - Shipping papers
 - DCM on board
 - Cargo inspections carried out and logged
 46 CFR 148.01-7
46 CFR 148.02-1
46 CFR 148.02-3
46 CFR 148.03-7

Notes: _____

Section 3: General Examination Items

Navigation Safety:

- | | | |
|--------------------------|--|---|
| <input type="checkbox"/> | Charts and publications for US waters/
intended voyage | 33 CFR 164.33 |
| | <ul style="list-style-type: none">• Current and corrected charts• US Coast Pilot• Sailing directions• Coast Guard Light List• Tide tables• Tidal current tables• International Rules of the Road• Inland Rules of the Road• International Code of Signals• Plotting equipment | 33 CFR 164.35 |
| <input type="checkbox"/> | Operationally test radar(s) and ARPA | 33 CFR 164.35
33 CFR 164.37
33 CFR 164.38 |
| | <ul style="list-style-type: none">• 2 required if over 10,000 GT• Operate independently• ARPA acquires targets | |
| <input type="checkbox"/> | Compasses | 33 CFR 164.35 |
| | <ul style="list-style-type: none">• Illuminated gyrocompass with repeater at stand• Illuminated magnetic compass• Current deviation table | |
| <input type="checkbox"/> | Test electronic depth sounding device and
recorder | 33 CFR 164.35 |
| | <ul style="list-style-type: none">• Accurate readout• Test all transducers• Continuous recorder (chart) | |
| <input type="checkbox"/> | Electronic position fixing device | 33 CFR 164.41 |
| | <ul style="list-style-type: none">• Location accurate | |

Notes: _____

- | | | |
|--------------------------|---|--|
| <input type="checkbox"/> | Indicators | 33 CFR 164.35 |
| | <ul style="list-style-type: none"> • Illuminated rudder angle indicator • Centerline RPM indicator • Propeller pitch (CPP systems) • Speed and distance indicators • Lateral thrusters | 33 CFR 164.40 |
| <input type="checkbox"/> | Communications | SOLAS 74/78 IV/6.3
33 CFR 26.03 |
| | <ul style="list-style-type: none"> • VHF radio | |
| <input type="checkbox"/> | Steering gear instructions | 33 CFR 164.35 |
| | <ul style="list-style-type: none"> • Instructions • Emergency instructions • Block diagram | |
| <input type="checkbox"/> | Maneuvering facts sheet with warning statement | 33 CFR 164.35 |
| <input type="checkbox"/> | Radiotelephone (VHF-FM) | 33 CFR 26.03 & 26.04 |
| <input type="checkbox"/> | EPIRB (406 MHz) | SOLAS 74/78 IV/7.1.6 |
| | <ul style="list-style-type: none"> • Float-free amount • Battery date current • Hydrostatic release | |
| <input type="checkbox"/> | GMDSS | SOLAS 74/78 IV/8
SOLAS 74/78 IV/9
SOLAS 74/78 IV/10
SOLAS 74/78 IV/11 |
| | <ul style="list-style-type: none"> • Additional radio equipment for area of operation | |
| <input type="checkbox"/> | Operationally test bridge steering | SOLAS 74/78 II/1-29 |
| | <ul style="list-style-type: none"> • Test power/control pumps independently • Test follow-up and non-follow-up controls • Rudder angle indicator accurate • Activate loss of power alarm | |
| <input type="checkbox"/> | GMDSS lifeboat radios (VHF) | SOLAS 74/78 III/6.2 |
| | <ul style="list-style-type: none"> • 3 if over 500 GT • Operable condition | |

Notes: _____

- ◇ 9 GHz radar transponder (SART) SOLAS 74/78 III/6.2
NVIC 9-93
 - Vessels > 300 GT and < 500 require 1
 - Vessels > 500 GT require 2
 - Stowed so to be rapidly placed in survival craft, or stowed in survival craft
- ◇ NAVTEX SOLAS 74/78 IV/7.1.4
- ◇ Radio installation SOLAS 74/78 IV/6.2
 - Marked with call sign

General Health and Safety

- ☐ Accident Prevention and Occupational Health
 - Rails, guards, protective clothing and equipment, warning signs posted in crew work areas
- ☐ Crew accommodations 46 CFR 92.20
MSM Ch. 13.C
 - Habitable conditions
 - Adequate lighting and ventilation
 - Free of cargo and stores
 - Individual berths
- ☐ Hospital space 46 CFR 92.20-15
MSM Ch. 13.C
 - Designated for ships ≥ 500 GT with 15 or more crew on voyage of more than 3 days
 - Not used for stowage or berthing
 - Properly operating toilet
- ☐ Galley MSM Ch. 6.P.8
MSM Ch. 13.C
 - Sanitary conditions
 - Adequately equipped to prepare food
 - Mess hall provided for crew
- ☐ Muster lists and emergency instructions
 - Available for each person SOLAS 74/78 III/8
 - Posted in conspicuous places
 - Shows crew member duties SOLAS 74/78 III/53

Notes: _____

Structural Integrity

NOTE: Request records of Outstanding Conditions of Class. (Form or format may vary depending on class society.) Conditions of Class may identify structural defects, wastage, etc. Conditions may also identify ships overdue for drydocking, repair or other required service.

- | | | |
|--------------------------|--|---|
| <input type="checkbox"/> | Hull structure | ICLL 66 Reg. 1 |
| | <ul style="list-style-type: none">• Frame pulling away• Fractures in corners• Holes in main decks• Leaks / patching on ballast tanks• Bulkheads / decks warped• Excessive wastage | |
| <input type="checkbox"/> | Side shell, accessible structural members, decks, cargo hatches and superstructure | ICLL 66 Reg. 1 |
| | <ul style="list-style-type: none">• Fractures, corrosion, wastage, pitting or damage to the extent that it may impair ship's seaworthiness• Excessive doublers, postage stamp inserts, cement boxes or soft patches• Welding burn marks or other evidence of recent repair work• Load line marked in accordance with certificates<ul style="list-style-type: none">– Hailing port– Name• Railings | ICLL 66 Regs. 4 - 9 |
| <input type="checkbox"/> | Hatch covers | ICLL 66 Regs. 13 - 16 |
| | <ul style="list-style-type: none">• Holes in covers• Frames pulling away• Gaskets / compression bar• Coaming• Hydraulics systems• Wastage / coatings | |
| <input type="checkbox"/> | Watertight/weathertight openings | |
| | <ul style="list-style-type: none">• Watertight doors, gaskets, dogs• Other openings (means of securing)• Vents, air pipes and closing appliances | ICLL 66 Reg. 12
ICLL 66 Regs. 13 - 18
ICLL 66 Regs. 19 & 20 |

Notes: _____

Ground Tackle:

- ◇ Anchor and windlass (spot-check)
 - Foundations
 - Drive units
 - Guards
 - Covers for moving parts
 - Brake pads
 - Deck fittings
 - Electrical (wiring) or hydraulic piping
- ◇ Mooring winches / capstans
 - Foundations
 - Cables / hooks
 - Boom
 - Brake
 - Electrical (wiring) or hydraulic piping
 - Ladders / rails

Cargo Operations:

- | | |
|--|---|
| <input type="checkbox"/> Cargo securing manual | SOLAS 74/78 VI/5.6
SOLAS 74/78 VII/6.6 |
| <input type="checkbox"/> Packaged hazmat | |
| • Hazmat containers stowed in accordance with stowage plan and DCM | SOLAS 74/78 VII/6
49 CFR 176.30 |
| • Unsafe / damaged containers | 49 CFR 176.50 |
| • Leaking / damaged packages | SOLAS 74/78 VII/4 |
| • Placarding | 49 CFR 172.50 |
| • "No Smoking" signs posted | 49 CFR 176.60 |
| <input type="checkbox"/> Bulk solid hazmat | |
| • Stowage conditions observed | 46 CFR 148.03-11 |
| • Special additional requirements | 46 CFR 148.04 |
| • Additional requirements of special permit | 46 CFR 148.01-11 |

Notes: _____

- ☐ Cargo ventilation systems SOLAS 74/78 II-2/53
 - Continuously running
 - Remote controls outside space
 - Indicators on bridge
- ☐ Hazardous wiring SOLAS 74/78 II-2/53
 - Lights and fixtures
 - Wiring
- ☐ Ramps / watertight doors ICLL 66 Reg. 21
 - Watertight integrity
 - Seals
 - Locking arrangements
 - Controls / warning alarms

Lifesaving Equipment:

- ☐ Lifeboats / rescue boats
 - Required number SOLAS 74/78 III/26
 - Hull integrity and fittings SOLAS 74/78 III/19.2
 - Engine starts within 5 minutes
 - Test engine at drill

NOTE: Do NOT test free fall lifeboat engine.

<u>Stbd Lifeboat</u>	<u>Port Lifeboat</u>	<u>Lifeboats</u>
Engine equipped	Engine equipped	Wooden
Engine tested	Engine tested	Fiberglass
Lifeboat lowered	Lifeboat lowered	Steel
		Covered
Free fall lifeboat with rescue boat		

- ☐ Davit system SOLAS 74/78 III/19.2
SOLAS 74/78 III/48
 - Structure and foundation
 - Roller tracks
 - Lubrication (evidence of use)
 - Falls; end for end / renew (2.5 / 5 years)
 - No obstructions to lowering

Notes: _____

- ☐ Embarkation area
 - No obstructions
 - SOLAS 74/78 III/11.7
 - Embarkation ladder
 - SOLAS 74/78 III/9
 - Launching instructions
 - Emergency lighting
- ☐ Liferafts
 - Required number
 - SOLAS 74/78 III/19
 - SOLAS 74/78 III/26
 - Stowage
 - SOLAS 74/78 III/29
 - Float-free arrangement
 - Hydrostatic release / weak link
 - Annual servicing (hydrostatic release and inflatable liferaft)
 - SOLAS 74/78 III/19.8.1
 - SOLAS 74/78 III/19.9.1
 - Maximum 17 months
 - Launching instructions posted
 - SOLAS 74/78 III/9
 - Bow / stern station
 - Lashed down on deck or in marked location
 - Lifejackets available
- ☐ Lifebuoys (spot-check)
 - Condition
 - SOLAS 74/78 III/19.2
 - Bridge location
 - Quick release system
 - SOLAS 74/78 III/7.1
 - Smoke and light float
 - Deck location
 - 50% with waterlights
 - Retro-reflective tape
 - SOLAS 74/78 III/30.2.7
- ☐ Lifejackets—watchstanders and crew (spot-check)
 - Condition
 - SOLAS 74/78 III/19.2
 - Stowage
 - SOLAS 74/78 III/7.2.2
 - Retro-reflective material
 - SOLAS 74/78 III/30.2.7
 - Light
 - SOLAS 74/78 III/27.2
 - Whistles
 - SOLAS 74/78 III/32.1.6
- ☐ Line-throwing appliances (spot-check)
 - SOLAS 74/78 III/17
 - 4 charges
- ☐ Pyrotechnics (spot-check)
 - SOLAS 74/78 III/6.3
 - 12 distress flares

Notes: _____

- | | | |
|--|--|--|
| <input type="checkbox"/> | Immersion suits and thermal protective aids (spot-check) | SOLAS 74/78 III/27.3 |
| <ul style="list-style-type: none"> • Condition • Retro-reflective material | | SOLAS 74/78 III/19.2
SOLAS 74/78 III/30.2.7 |

Fire Protection:

- | | | |
|--|---|---|
| <input type="checkbox"/> | Fire control plan | SOLAS 74/78 II-2/20 |
| <ul style="list-style-type: none"> • Permanently exhibited • Language of flag state • Copy permanently stored in weathertight container outside deckhouse | | |
| <input type="checkbox"/> | Portable fire extinguishers (spot-check) | SOLAS 74/78 II-2/6.5 |
| <ul style="list-style-type: none"> • Good condition / available for immediate use • Located on stations • Serviced at periodic intervals | | |
| <input type="checkbox"/> | International shore connection | SOLAS 74/78 II-2/19 |
| <input type="checkbox"/> | Means of escape from accommodation, machinery, and other spaces | |
| <ul style="list-style-type: none"> • Two required (some exceptions) • Dead end corridors | | SOLAS 74/78 II-2/45 |
| <input type="checkbox"/> | Fire doors (spot-check) | SOLAS 74/78 II-2/46
SOLAS 74/78 II-2/47 |
| <ul style="list-style-type: none"> • Machinery space and stair towers • Not tied or blocked open • Installed closure devices working | | |
| <input type="checkbox"/> | Fire detection systems (spot-check) | |
| <ul style="list-style-type: none"> • Smoke / fire alarms • Remote pull stations • Smoke / flame / heat detectors and sensors | | SOLAS 74/78 II-2/13
SOLAS 74/78 II-2/11.8
SOLAS 74/78 II-2/53 |

Notes: _____

- ◇ Test operation of fire main system
 - Required number of fire pumps SOLAS 74/78 II-2/4
 - Location of pumps
 - Pumps, hydrants, piping, hoses, and nozzles in good condition and available for immediate use SOLAS 74/78 II-2/21
- ◇ Structural fire protection (spot-check) SOLAS 74/78 II-2/42
 - Bulkheads
 - Insulation
 - Ventilation
 - Penetrations
- ◇ Fixed fire extinguishing systems: cargo, machinery, and other spaces SOLAS 74/78 II-2/21
 - Tanks, cylinders, piping, controls, alarms, and release mechanisms in good condition and available for immediate use

Type of system: (circle appropriate type)

Low Pressure CO ₂	High Pressure CO ₂	Halon	Foam
---------------------------------	----------------------------------	-------	------

Pollution Prevention: (spot-check at reexaminations)

- ☐ Pollution placard posted 33 CFR 155.450
- ☐ MARPOL V placard posted 33 CFR 151.59
MARPOL Ax. V/9
- ☐ Garbage
 - Shipboard garbage properly disposed MARPOL Ax. V/3
 - Incinerator 33 CFR 151.63
 - Evidence of use (clinkers)
 - Safety of burner assembly
 - Electrical controls
 - Garbage Management Plan MARPOL Ax. V/9

Notes: _____

- ☐ Oil and hazmat
 - Fuel oil and bulk lubricating oil discharge containment 33 CFR 155.320
 - Prohibited oil spaces 33 CFR 155.470
- ☐ Oily-water separating equipment, bilge alarm, and bilge monitor
 - MARPOL Ax. I/16 33 CFR 155.380
 - Alarm, recorder
 - Standard Discharge Connection 33 CFR 155.430
- ☐ Marine sanitation device
 - Type (I, II, or III) 33 CFR 159.7
 - Nameplate 33 CFR 159.55
 - Placard 33 CFR 159.59

Machinery Spaces:

- ☐ Main and auxiliary machinery installations
 - General housekeeping SOLAS 74/78 I/11(a)
 - Fire hazards
 - Shock and electrical hazards SOLAS 74/78 II-1/45.1
 - Personnel hazards (moving parts not protected, hot surfaces, etc.) SOLAS 74/78 II-1/26
 - Leaking fuel oil piping or fittings
 - Sea chests, sea valves / spool pieces in good condition
 - Tank tops and bilges free of oil SOLAS 74/78 II-2/15
 - Watertight doors SOLAS 74/78 II-1/23
 - Hand / power operation
 - Local / remote control
 - Alarm
- ☐ Steering gear machinery SOLAS 74/78 II-1/29
 - Linkages
 - Hydraulic leaks
 - Ram guides
 - Lubrication

Notes: _____

- ◇ Operationally test main and auxiliary steering gear SOLAS 74/78 II-1/29.15 through 29.20
 - 28-second operation
 - Systems operate independently
 - Unusual vibrations / leaks
 - Ram hunting
 - Limit switches
 - Communications with bridge
 - Steering gear instructions (block diagram)
- ◇ Main ship service generators SOLAS 74/78 II-1/41

NOTE: *Two independent sources of power required.*

 - F/O piping
 - Cooling lines
 - Controls
- ◇ Emergency generator room SOLAS 74/78 II-1/43
 - Test operation of prime mover
 - Personnel safety
 - Ventilation adequate
 - Electrical switchboard
 - Grounds
- ◇ Bilge pumps SOLAS 74/78 II-1/21
 - Two required

Notes: _____

Section 4: Drills

◆ **Fire Drill:**

Initial notifications	Familiarity with duties	Space isolation
General alarms / signals	Familiarity with equipment	Smoke control
Crew response	Fire pumps started	Communications w/ bridge
Properly dressed / equipped	Two jets of water	
Language understood by crew	Fire doors and dampers	

(SOLAS 74/78 III/18.3; MSM Vol. II/22.C.7.i; NVIC 6-91)

Time on Scene: _____

Notes: _____

[illegible]



(SOLAS 74/78 III/18.3; MSM Vol. II/22.C.7.h)

Notes: _____

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Section 5: Expanded Examination Items

Manuals and Instructions:

- Check for presence of the following documents
 - Instructions for maintenance and operation of all installations / equipment for fighting and containing a fire SOLAS 74/78 II-2/20
 - Training manual for lifesaving appliances SOLAS 74/78 III/18.2
 - Instructions for onboard maintenance of lifesaving appliances SOLAS 74/78 III/51
 - SOLAS 74/78 III/19.3
 - SOLAS 74/78 III/52
 - Stability booklet, associated stability plans and information SOLAS 74/78 II-1/22
ICLL 66 Reg. 10
- Cargo gear certificate
- Grain loading manual SOLAS 74/78 VI/9.1
 - Bulk vessel (stability and grain manuals often combined)
- Human Factors STCW Code
 - Determine if the appropriate crew members are able to understand the information given in manuals, instructions, etc., relevant to the safe condition of the ship and its equipment, and that they are aware of the requirements for maintenance, periodical testing, training, drills, and recording of logbook entries.

Safety Management System (SMS):

NOTE: Requirements and guidance for inspecting vessel Safety Management Systems are detailed in SOLAS 74/78, Chapter IX and NVIC 4-98.

- Documentation (may be in the form of a Safety Management Manual)
 - Controlled documents
 - Quality policy
 - Master of vessel familiar with SMS
 - Language understood by crew
 - Documentation identifies:
 - Written procedures kept on board vessel
 - Essential or critical equipment identified (or a separate manual containing this information)
 - Procedures for reporting non-conformities
 - Company's designated person(s) (name or title, and address)

Notes: _____

○ Company's training program conducted in accordance with STCW

STCW I/14

NOTE: Documented procedures established to ensure new personnel and personnel transferred to new assignments are given proper familiarization with their duties.

- Proper documentation
- Training conducted before crew is assigned shipboard duties
- Essential instructions are documented and provided before sailing

○ Crew familiar with SMS issues

- Ship's officers
 - Documented procedures
 - Preventative procedures for essential equipment
 - Reporting requirements for non-conformities and able to identify typical scenarios that may result in a documented non-conformity
- Master and chief engineer familiar with internal audit procedures (e.g., know how many audits required per year and have participated in at least one) in addition to requirement's for ship's officers

○ Documented maintenance system

- Documented in writing and computerized versions
- Readily available and in language understood by those who use them
- Procedures are followed
- Records maintained

○ Vessel-specific procedures are documented in writing and address the following areas:

NOTE: Not mandatory that they follow the exact format listed below.

- Preventative maintenance
- Navigation
- Bunkering operations
- Emergency preparedness
- Pollution prevention
- Technical procedures
- Communications

Notes: _____

- Audits
 - Internal audits conducted as specified by SMS
NOTE: Do NOT examine internal audit records.
 - External audit results reviewed
 - Status of open non-conformities relevant to deficiencies leading to detention
 - Status of implementation of corrective and preventative measure
- SMS review conducted by Master in accordance with procedures in SMS
 - Non-conformities identified
 - Report of non-conformity prepared and sent in accordance with procedures established by SMS

Navigation Safety:

- Test navigation equipment listed in Section 3 to the extent necessary to determine if equipment is operating properly.
- Human Factors (spot-check): determine if deck officers are familiar with the following items:

STCW Table A-II
NVIC 3-98

 - Operation of bridge control and navigational equipment
 - Use of nautical publications and charts
 - Ship maneuvering characteristics
 - Lifesaving signals
 - Bridge procedures, instructions, manuals, etc.
 - Changing steering from automatic to manual and vice versa
 - Preparations for arrival and departure
 - Communications with engineroom
 - Use of VHF
 - Raising the alarm
 - Abandon ship drill and fire drill

Notes: _____

- Lights, shapes, and sound signals 72 COLREGS
 - Navigation lights
 - Sound signals
 - Distress signals
- Radio log SOLAS 74/78 IV/17
- Radio operation SOLAS 74/78 IV/7
 - Transmit on 2182 MHz and Ch. 6, 13, 16, 70
- INMARSAT communications SOLAS 74/78 IV/7.1.5

Cargo Operations:

- Hazmat
 - Emergency Response Information 49 CFR 172.600
 - Packages properly marked and labeled 49 CFR 172.300-450
 - All labeled and placarded cargoes listed on DCM 49 CFR 176.30
 - Proper stowage and segregation 49 CFR 176, Subparts C & D
- Human Factors: determine if personnel are familiar with the following items: STCW Table A-II/III
 - Hazardous material regulations 49 CFR 176.57
 - Special requirements (e.g., loading, segregation, firefighting equipment, etc.) for particular cargoes
 - Dangers posed by the cargo
 - Measures to be taken for cargo emergencies

Notes: _____

Lifesaving Equipment:

- Lifeboats/liferafts/rescue boats
 - Ensure effective operation of winches, davits, falls, sheaves, etc. (Lower at least one lifeboat to the water.) SOLAS 74/78 III/19
 - Test lifeboat and rescue boat flemming gear and/or engines
 - Verify presence/condition of lifeboat equipment SOLAS 74/78 III/41
 - Retro-reflective tape
 - Lighting SOLAS 74/78 III/11.4
- Emergency communication equipment
 - 2-way VHF radiotelephone apparatus SOLAS 74/78 III/6.2
 - Radar transponders
 - Survival craft EPIRBs
 - Onboard communication and alarm system SOLAS 74/78 III/6.4
- Line-throwing appliance SOLAS 74/78 III/17.49
 - Specifications and equipment
- Pilot ladders and hoists in good condition SOLAS 74/78 V/17
- Distress signals SOLAS 74/78 III/6.3
 - 12 red rocket parachute flares

Notes: _____

Fire Protection:

- Structural fire protection SOLAS 74/78 II-2/42, 43, 44, 46, 47 49, & 50
 - Bulkheads and decks meet applicable fire integrity requirements
 - Openings (e.g., doors, ductwork, electrical wires, piping, etc.) constructed so that they do not destroy fire resistance of bulkheads
 - Manual and automatic fire doors examined / tested
- Fire detection, fire alarm, and automatic sprinkler systems fitted where required and operating properly SOLAS 74/78 II-2/52
- Ventilation systems SOLAS 74/78 II-2/48
 - Main inlets and outlets of all ventilation spaces can be closed from outside ventilated space
 - Power ventilation capable of being shutdown from outside ventilated space
- Fire pumps SOLAS 74/78 II-2/4
 - Fire main activated; water pressure satisfactory (energize forward-most and highest hydrants)
- Paint lockers and flammable liquid lockers protected by an appropriate fire extinguishing arrangement SOLAS 74/78 II-2/18.7
- Special arrangements in machinery spaces SOLAS 74/78 II-2/11
 - Machinery space ventilating fans can be shut down from outside spaces
 - All openings capable of being closed from outside machinery spaces
 - Machinery driving forced / induced draft fans, oil fuel transfer pumps, and other fuel pumps fitted with remote shutdowns located outside space concerned

Notes: _____

- Firemen's outfits (spot-check) SOLAS 74/78 II-2/17.3
 - Two lockers
 - Two outfits
 - Protective clothing
 - Helmet, boots, and gloves
 - Lamp
 - Ax
 - Breathing apparatus and lifeline
- Fixed fire extinguishing arrangements in cargo spaces for vessels ≥ 2000 GT SOLAS 74/78 II-2/53.1
 - Vessels with ro-ro spaces SOLAS 74/78 II-2/53.2
 - Fixed fire detection and alarm system (vessels built after 01 FEB 92)
 - Fixed fire extinguishing system
 - Portable fire extinguishers and additional fire equipment
 - Ventilation system requirements
 - Explosion-proof fixtures
 - Vessels with cargo holds intended for carrying motor vehicles with fuel in their tanks SOLAS 74/78 II-2/53.3
 - Fixed fire detection and alarm system (vessels built after 01 FEB 92)
 - Fixed fire extinguishing system
 - Portable fire extinguishers and additional fire equipment
 - Ventilation system requirements
 - Explosion-proof fixtures
 - Vessels carrying dangerous goods in packaged or solid bulk form SOLAS 74/78 II-2/54
SOLAS 74/78 VII/1-6
 - Special requirements (see Tables 54.1, 54.2, and 54.3 of II-2/54.2.3 for specific requirements)
 - Document of Compliance (flag state)

Notes: _____

Pollution Prevention:

- Equipment
 - Test automatic stopping device required for discharge MARPOL Ax. I/6
 - Segregation of oil fuel and water ballast systems MARPOL Ax. I/14
 - Oily residue tank (discharge arrangements, homogenizers, incinerators, etc.) MARPOL Ax. I/17
 - Witness operational test of emergency shutdown 33 CFR 155.780
- Human Factors
 - STCW Table A-III
 - MARPOL Ax. I
 - Oil and oily mixtures
 - Responsible officer familiar with handling of sludge and bilge water
 - Quantity of residues generated
 - Capacity of holding tanks
 - Capacity of oil water separator
 - Note any inadequacies in reception facilities used; advise master to report these to flag state
 - Garbage
 - Note any inadequacies in reception facilities used; advise master to report these to flag state
 - Crew familiar with Annex V requirements
 - MARPOL Ax. V

Machinery Spaces:

- Communication between navigating bridge and machinery space
 - SOLAS 74/78 II-1/37
 - Two means, one of which must be an engine order telegraph
 - Tested
- Emergency source of electrical power
 - SOLAS 74/78 II-1/43
 - SOLAS 74/78 II-1/44
 - Location
 - Generator and/or batteries tested under load
 - Emergency lighting

Notes: _____

- Main engine / vital auxiliaries (spot-check) SOLAS 74/78 II-1/27
 - F/O pumps / piping
 - S/W pumps / piping
 - J/W pumps / piping
 - L/O pumps / piping
 - Piston cooling pumps / piping
 - Air compressors / receivers
 - Fuel / oil purifiers
 - H/O heaters / transfer pump
- Steering gear alarms SOLAS 74/78 II-1/29
 - Low hydraulic oil
 - Loss of power
 - Loss of phase
 - Overload
- Human Factors: determine if personnel are familiar with the operation of the following items STCW Table A-III
 - Emergency generator:
 - Actions necessary before engine can be started
 - Different methods by which generator may be started
 - Stand-by generator engine:
 - Methods to start engine automatically or manually
 - Blackout procedures
 - Load-sharing system
 - Steering gear:
 - Action needed to bring main and auxiliary into operation
 - Changing steering from automatic to manual and vice versa
 - Bilge pumps:
 - Starting procedures for main and emergency bilge pump
 - Appropriate valves to operate
 - Fire pumps:
 - Starting procedures for main and emergency fire pumps
 - Appropriate valves to operate

Notes: _____

Section 6: Appendices

Recommended ACP Vessel Deficiency Procedures:

Step	Action																
1	Identify deficiency.																
2	Inform vessel representative.																
3	Record on the <i>Deficiency Summary Worksheet</i> (next page).																
4	If deficiency is corrected prior to end of exam, go to Step 7.																
5	<p>If deficiency is unable to be corrected prior to end of exam, follow guidance in the tables below.</p> <p>TABLE 1: Minor deficiency discovered by Coast Guard marine inspector*</p> <table> <tr> <th>Step</th><th>Action</th></tr> <tr> <td>1</td><td>Notify ACP class surveyor-in-charge.</td></tr> <tr> <td>2</td><td>If ACP class surveyor issues an OSR, go to Step 7.</td></tr> <tr> <td>3</td><td>If ACP class surveyor is not available, issue CG-835 to vessel with copy sent to ACP class surveyor-in-charge. Go to Step 6.</td></tr> </table> <p>TABLE 2: Major deficiency that poses a direct and immediate threat to vessel's crew, safety of navigation, or marine environment*</p> <table> <tr> <th>Step</th><th>Action</th></tr> <tr> <td>1</td><td>Notify ACP class surveyor-in-charge of deficiency.</td></tr> <tr> <td>2</td><td>Ascertain proposed corrective action.</td></tr> <tr> <td>3</td><td>Detain vessel if so determined by OCMI under SOLAS I/19 or MARPOL Article 5.</td></tr> </table> <p>* NOTE: Deficiencies shall indicate the item must be completed to the satisfaction of either the OCMI or ACP class society. The OCMI may deny or revoke the COI for noncompliance with the terms and/or conditions of the deficiencies.</p>	Step	Action	1	Notify ACP class surveyor-in-charge.	2	If ACP class surveyor issues an OSR, go to Step 7.	3	If ACP class surveyor is not available, issue CG-835 to vessel with copy sent to ACP class surveyor-in-charge. Go to Step 6.	Step	Action	1	Notify ACP class surveyor-in-charge of deficiency.	2	Ascertain proposed corrective action.	3	Detain vessel if so determined by OCMI under SOLAS I/19 or MARPOL Article 5.
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1	Notify ACP class surveyor-in-charge of deficiency.																
2	Ascertain proposed corrective action.																
3	Detain vessel if so determined by OCMI under SOLAS I/19 or MARPOL Article 5.																
6	Enter CG-835 data in MIDR.																
7	Enter deficiency data in MSDS.																
8	Initiate Report of Violation (ROV) if necessary.																

Deficiency Summary Worksheet:

Name of Vessel

VIN

Deficiency	MSIS Code	Req't. Issued / Date Completed

Deficiencies identified should be listed with MSIS codes. At completion of inspection/examination, any outstanding deficiencies shall be entered in MIDR or PSDR as appropriate. All deficiencies found (outstanding and completed) shall be entered in the Deficiency Summary. Worklist items, which serve only as memory joggers to complete inspection/examination (e.g., test emergency fire pump), should not be coded as deficiencies.

MSIS Codes for Deficiencies:

BS	Ballast	DC	Dry Cargo	IC	I/C Engine
BI	Bilge	ES	Electrical	LS	Lifesaving
BA	Boiler, Aux.	FF	Firefighting	MI	Miscellaneous
BM	Boiler, Main	FL	Fuel	NS	Navigation
CS	Cargo	GS	General Safety	PP	Propulsion
DM	Deck Machinery	HA	Habitation	SS	Steering
DL	Doc., Lics., Pmts.	HU	Hull		

Conversions:

Distance and Energy				
Kilowatts (kW)	X	1.341	=	Horsepower (hp)
Feet (ft)	X	3.281	=	Meters (m)
Long Ton (LT)	X	.98421	=	Metric Ton (t)
Liquid (<i>NOTE: Values are approximate.</i>)				
Liquid	bbbl/LT	m³/t	bbbl/m³	bbbl/t
Freshwater	6.40	1.00	6.29	6.29
Saltwater	6.24	.975	6.13	5.98
Heavy Oil	6.77	1.06	6.66	7.06
DFM	6.60	1.19	7.48	8.91
Lube Oil	7.66	1.20	7.54	9.05
Weight				
1 Long Ton	= 2240 lbs	1 Metric Ton	= 2204 lbs	
1 Short Ton	= 2000 lbs	1 Cubic Foot	= 7.48 gal	
1 Barrel (oil)	= 5.61 ft³ = 42 gal = 6.29 m³	1 psi	= .06895 Bar = 2.3106 ft of water	
Temperature: Fahrenheit = Celsius (°F = 9/5 °C + 32 and °C = 5/9 (°F – 32))				
0	= -17.8	80	= 26.7	200 = 93.3
32	= 0	90	= 32.2	250 = 121.1
40	= 4.4	100	= 37.8	300 = 148.9
50	= 10.0	110	= 43.3	400 = 204.4
60	= 15.6	120	= 48.9	500 = 260
70	= 21.1	150	= 65.6	1000 = 537.8
Pressure: Bars = Pounds per square inch				
1 Bar	= 14.5 psi	5 Bars	= 72.5 psi	9 Bars = 130.5 psi
2 bars	= 29.0 psi	6 Bars	= 87.0 psi	10 Bars = 145.0 psi
3 Bars	= 43.5 psi	7 Bars	= 101.5 psi	
4 Bars	= 58.0 psi	8 Bars	= 116.0 psi	